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- (71) Applicant (*for all designated States except US*): **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA** [US/US]; Office of The President, 1111 Franklin Street, 12th floor, Oakland, CA 94607-5200 (US).
- (72) Inventors; and (75) Inventors/Applicants (*for US only*): **CHENG, Genhong** [US/US]; 3600 Gancelon Drive, Calabasas, CA 91302 (US). **MODLIN, Robert, L.** [US/US]; 4034 Benedict Canyon, Sherman Oaks, CA 91423 (US). **VAIDYA, Sagar** [US/US]; 8687 Grand Avenue, Yucca Valley, CA 92284 (US). **DOYLE, Sean** [US/US]; 1923 Selby Avenue, #203 Los Angeles, CA 90025 (US).
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(54) Title: METHODS FOR STIMULATING TLR/IRF3 PATHWAYS FOR INDUCING ANTI-MICROBIAL, ANTI-INFLAMMATORY AND ANTICANCER RESPONSES

(57) Abstract: The present invention provides methods for stimulating Toll-like receptors (TLR) to activate IRF (e.g., an IRF3) and signaling pathway, and thereby directing an antimicrobial activity. The present invention also provides methods for identifying agents that bind and/or stimulate TLR and mediate induction of an IRF3 pathway, thereby directing an antimicrobial activity. Additionally, the invention provides methods and agents for suppressing stimulation of TLR, thereby directing an anti-inflammatory response.

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# INTERNATIONAL SEARCH REPORT

International application No.

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 33/53; A61K 38/00, 39/00

US CL : 435/7.1; 424/85.1, 198.1; 514/2

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/7.1; 424/85.1, 198.1; 514/2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
STN, EAST; search terms: TLR, IRF3, microbial

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,158,939 A (TAKAYAMA et al) 27 October 1992 (27.10.1992), column 1, lines 25-43, column 6, lines 28-35.	1-19, 22, 23

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
Facsimile No. (703)305-3230

Authorized officer

*Helicia D. Roberts for*  
Janet Andres

Telephone No. 703-308-0196